REGIOLUX PICO-BMS DALI-2 Multifunctional Sensor Instruction Manual

REGIOLUX

PICO-BMS DALI-2 Multifunctional Sensor
Instruction Manual

B.E.G. LUXOMAT®

net
PICO-BMS DALI-2

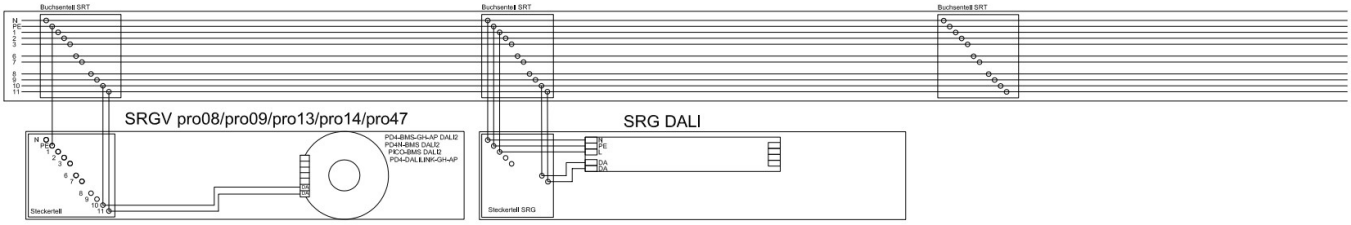
DALI 2

93547

CE

Contents

PICO-BMS DALI-2 Multifunctional Sensor



Wiring diagram SRGV pro08/pro09/pro13/pro14/pro47
SRG DALI are controlled (observe max. current strengths SRT installation instructions!).
Only to be used in combination with a BMS system Compatibility must be ensured (DALI parts)

Safety instructions

Work on the mains supply may only be carried out by qualified professionals or by instructed persons under the direction and supervision of qualified skilled electrical personnel in accordancewith electrotechnical regulations.

Disconnect supply before installing! This device is not to be used to isolate other equipment from the mains supply.

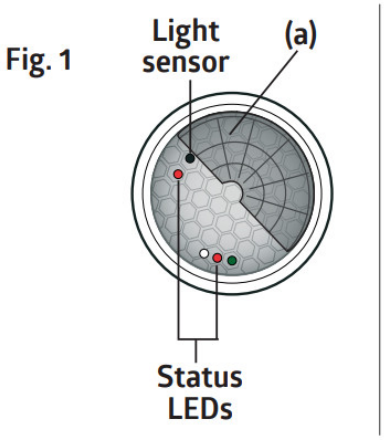
DALI is not SELV – the installation instructions for low voltage apply. The DALI screw clamps must not beconnected to 230 VAC!

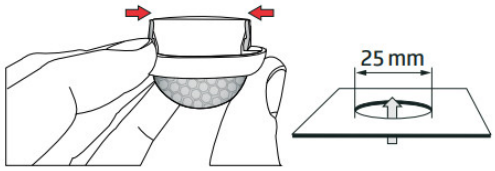
Read this supplementary sheet and the operating instructions before putting the device into operation. Knowledge of these documents is part of the intended use!

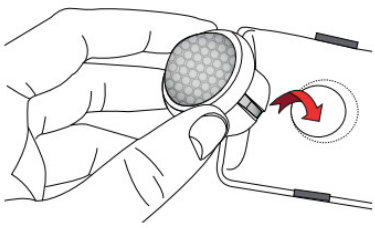
Operation

	DALI-2 mini multi-sensor (input device) with only 11 mm installation depth for installation in luminaires. Power supply via DALI bus.
	Addressable according to IEC 62386 Part 103 (control device). Instance 0 provides information regarding occupancy and movement for the DALI bus according to IEC 62386 part 303. Instance 1 provides LUX values for the DALI bus according to IEC 62386 part 304. Parameterisation is possible via mandatory Multimaster-Application-Controller of any manufacturer. This controller must support IEC 62386 parts 101/103/303/304.

Mounting





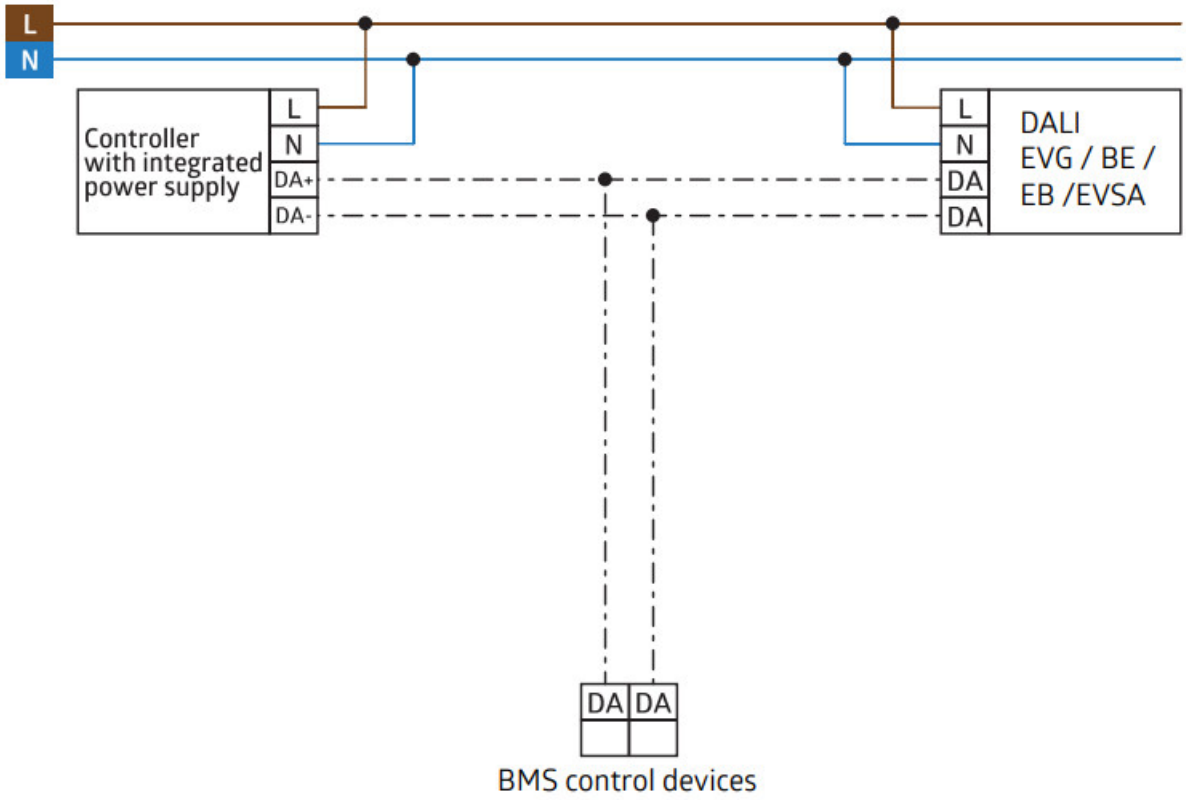


Exclude sources of interference

◀ Fig. 1, a
In case the detection area of the detector is too large or areas are being covered that should not be monitored, the range can be reduced or limited by using the enclosed blinds.

Wiring diagram

Schematic diagram – when connecting the detector, please respect the labelling of the terminal connections at the device!



Self-test cycle
During the first 20 sec after connecting to the DALI bus power, the product will enter a self-test cycle. During this time the device does not respond to movement.
Initial operation
General: The device can be put into service directly after mounting, following the software instructions from the relevant controller manufacturer.

LED function indicators

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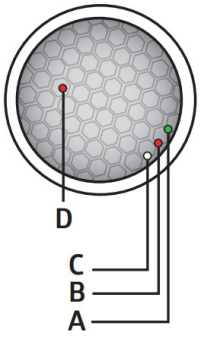
<tr>
<td> 
</td>
<td>• Shortly on:
A Green Movement
B Red –
C White –
• Flashing:
A Green Localisation
B Red Initialisation
C White Localisation
D Red Localisation</td>
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<tr>
<td></td>
<td>Range of coverage / Product Code</td>
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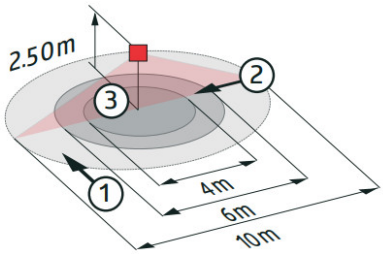
<td>Fig. 2
 

<table>
<tr><th>I</th><th>①</th><th>②</th><th>③</th></tr>
<tr><td>2.50 m</td><td>Ø 10.00 m</td><td>Ø 6.00 m</td><td>Ø 4.00 m</td></tr>
<tr><td>5.00 m</td><td>Ø 20.00 m</td><td>Ø 12.00 m</td><td>–</td></tr>
</table>

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Technical data

	Settings: via application which supports DALI multisensors (IEC 62386 parts 101, 103, 303, 304).
DALI-BUS max. 2 2,5 V	Voltage
7 mA	Typ. power input
0.2 – 0.75 mm²	Terminal clamps: for solid one-wire conductors
II / IP20	Class / Degree of protection
33 x 27 mm	Dimensions Ø x H [mm]
◀ Fig. 2 2,5 m -25°C – +50°C 1 = Ø 10 m 2 = Ø 6 m 3 = Ø 4 m	Range of coverage at mounting height Ambient temperature 1 accross 2 towards 3 seated activities
79 m 2	Monitored surface, when the detector is mounted at 2.5 m mounting height and for tangenti al approach
2 m / 3 m / 2.5 m	Mounting height min. / max. / recommended
PC	Housing
0 – 4095 Lux	Measured light output
CE	EU Declaration of conformity This product respects the directives concerning 1. electromagnetic compatibility (2014/30/EU) 2. low voltage (2014/35/EU) 3. restriction of the use of certain hazardous substances in electrical and electronic equipm ent (2011/65/EU)

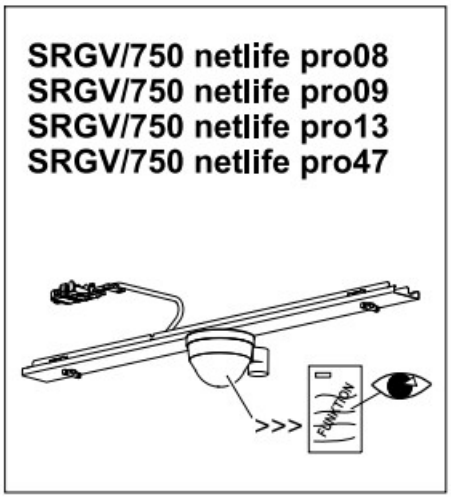
Trouble shooting

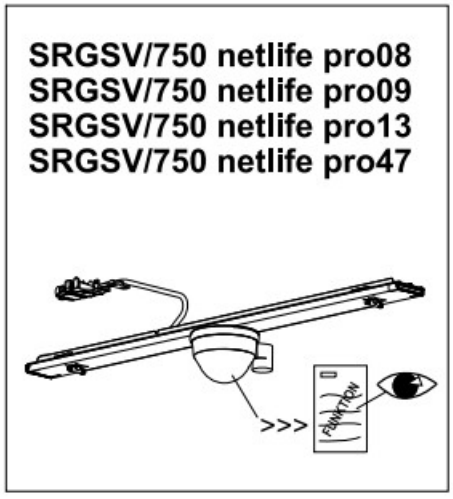
Power consumption on DALI line too high
Please be aware of the total power comsumption of all the DALI units in your system.
Heat sources in the vicinity If, for example, the detector is located in the immediate vicinity of ventilation slits or a projector, the warm air currents can triggermotion detection. Place the detector at a suficient distance from potential sources of interference such as ventilation slits, projectors, beamers etc.

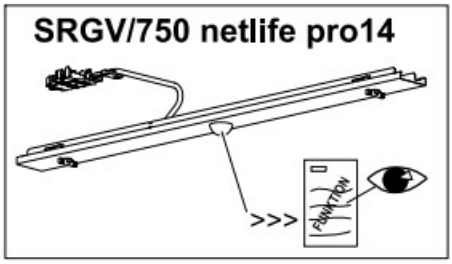
https://www.beg-luxomat.com/qr.php?prtno=93547

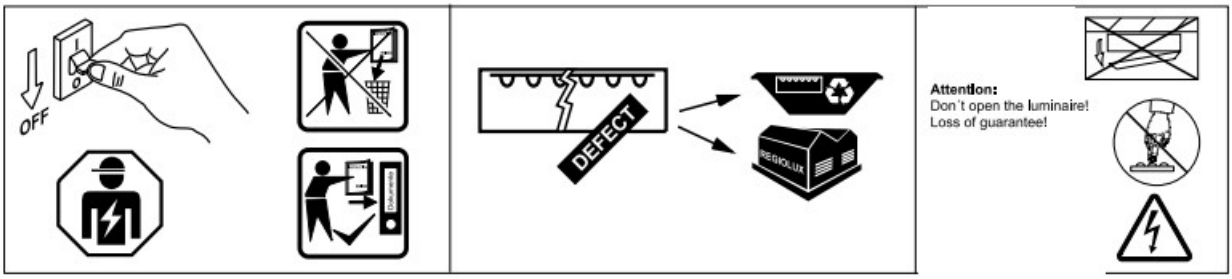
Product page on the internet

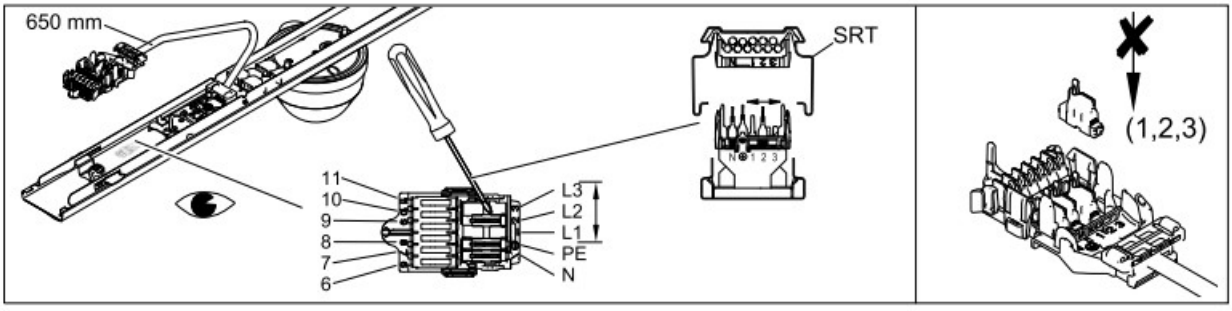
INSTRUCTION



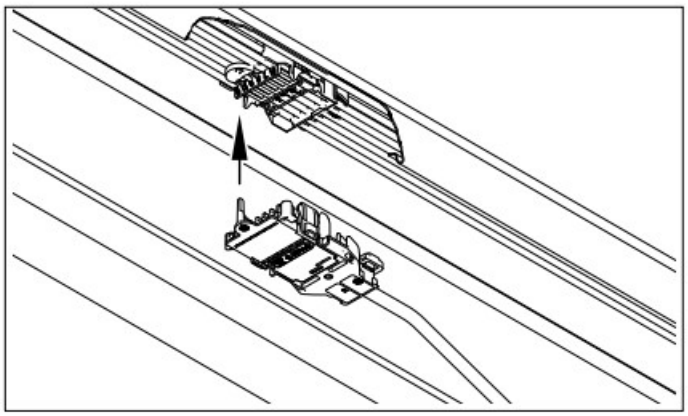


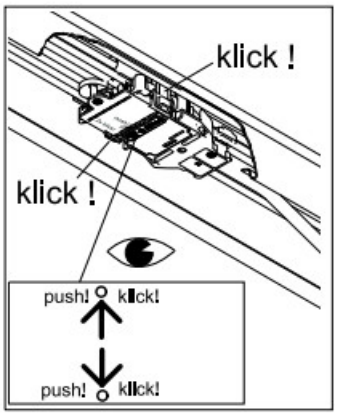


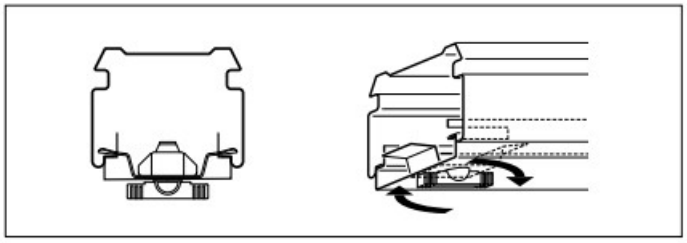


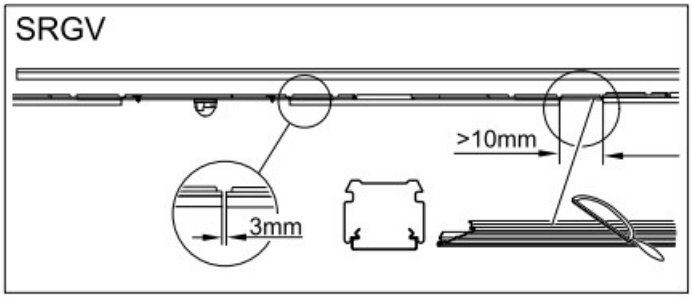


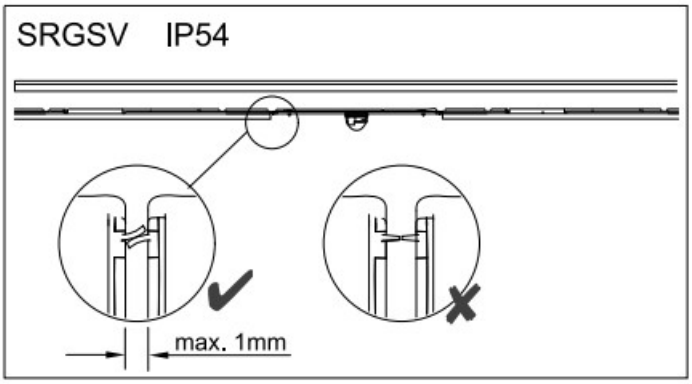
Montage



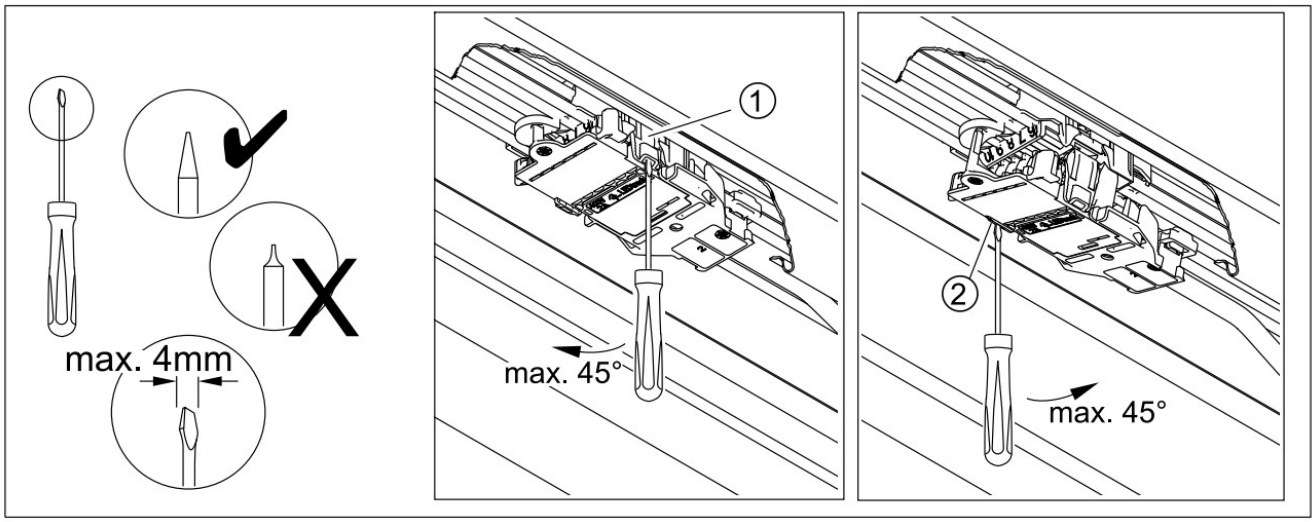

klick !
klick !
push! klick!
push! klick!




SRGV
>10mm
3mm


SRGSV IP54
max. 1mm

Demonatage



Art.-Nr.: 532846 - 02/2023

Safety Information

General Safety Information

- Installation, commissioning and maintenance only by qualied electrician.
- Never perform any work on the luminaire with voltage applied. Danger to life due to electric shock!
- Electric connection must be appropriate according to all applicable standards and other national and international safety and accident prevention regulations.
- Damaged luminaires must not be operated.
- Observe and retain safety instructions and mounting instructions
- No liability is accepted for damages resulting from improper use.
- Use genuine parts only for repair.
- Ensure stability of the ceiling and fastening elements.
- The luminaire is exclusively intended for interior rooms and ambient temperatures not exceeding 25°C, unless otherwise described by labeling the luminaire.

Operation of the luminaire

- Abnormal dark spots may be an indication of partial failure of LEDs. Inspect regularly and replace the luminaires affected. The light source (LED) of this luminaire must not be exchanged or replaced by the user.
- Exceeding the permissible ambient temperature will reduce the luminaire’s lifecycle, resulting in premature failure in extreme cases.
- Avoid condensation of the luminaire.
- Any mechanical load to the LED circuit boards is not permitted.
- ESD LEDs can be damaged by electrostatic discharge (ESD). This may result in total failure. Always avoid direct contact.
- Depending on their concentration, chemicals can corrode the LED modules and lead to reduction of

luminousux, drift of luminous colour and/or total failure. Always avoid direct contact with acids, bases, solvents, volatile organic compounds and/or oils. Ensure sufficient ventilation to prevent damage by gas release.

- Avoid ESD problems by not routing feed-through wiring directly along the wiring of the luminaire.
- Connect control inputs of dimmable luminaires with standard cables suitable for power supply voltage.

Changes to our products

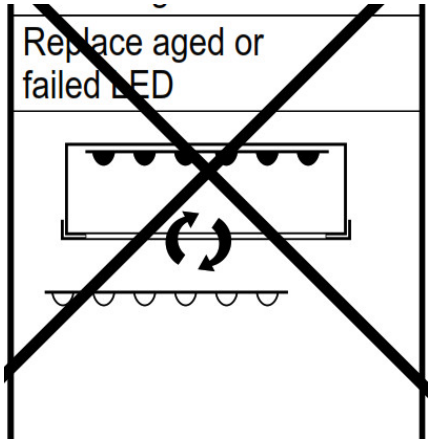
Modification, reworking, re-marking of products can have a negative impact on their technical properties, destroy them and possibly cause consequential damage to other objects. The manufacturer cannot be held responsible for damage caused by such changes.

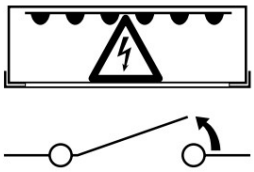
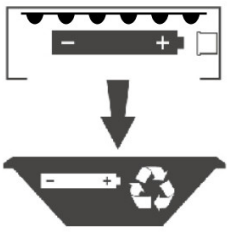
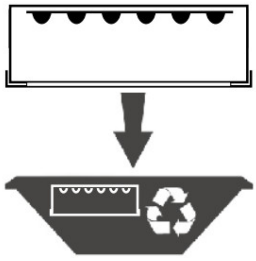
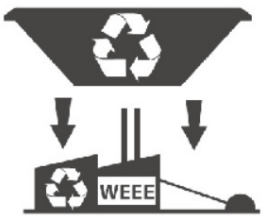
+ IP5x – dust nonconductive

+ IP6x – dust conductive and dust nonconductive

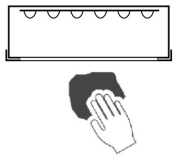
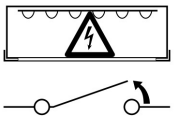
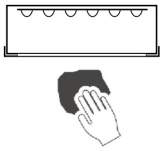
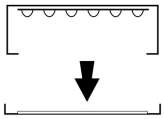
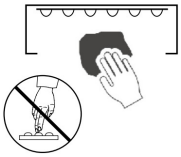
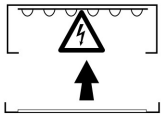
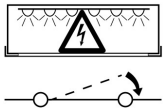
Information for service, cleaning and disposal of luminaire

Instruction for luminaire service:



Instruction for end of life:	Switch off, switch off supply to luminaire	“Remove battery for disposal	Remove luminair for disposal	Dispatch materials to WEEE reevelino nlant
				

Instruction for luminaire cleaning :

Only SELV!						
Clean luminaire	Switch off, switch off suply to luminaire	Clean outside luminaire	Remove optic	Clean inside luminaire	Refit optic	Make functional test
						

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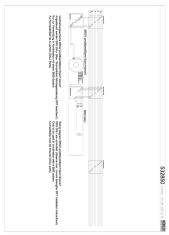
Documents / Resources

	REGIOLUX PICO-BMS DALI-2 Multifunctional Sensor [pdf] Instruction Manual PICO-BMS DALI-2, PICO-BMS DALI-2 Multifunctional Sensor, Multifunctional Sensor, Sensor

References

- User Manual